

CLAIMS

What is claimed is:

1. A system for delivering content to a portable wireless transceiver, comprising:
5 a first wireless transceiver in communication with a second wireless transceiver via a wireless communication link, wherein at least one of the wireless transceiver is a portable wireless transceiver;
a mobility state associated with the portable wireless transceiver; and
a module for limiting the transmission of content over the communication link based on the mobility state.,

10 2. The system of Claim 1 wherein the communication link includes a Code Division Multiple Access based protocol.

3. The system of Claim 1 wherein the mobility state is one of at least three mobility states.

15 4. The system of Claim 3 wherein the mobility states include a stationary state, a pedestrian state, and a mobile state.

5. The system of Claim 1 wherein the mobility state is associated with at least one pricing plan from a plurality of available pricing plans.

6. The system of Claim 5 wherein each pricing plan is associated with a respective set of deliverable content types based on the mobility state.

7. The system of Claim 6 further comprising a representation of the deliverable content types displayed to a user of the portable wireless transceiver.

8. A method of delivering content to a portable wireless transceiver, comprising:
5 establishing a wireless communication link between a first wireless transceiver and a second wireless transceiver, at least one of the wireless transceivers being a portable wireless transceiver;
detecting a mobility state of the portable wireless transceiver; and
based on the detected mobility state, limiting the transmission of content over the communication link.

10 9. The method of Claim 8 wherein the communication link includes a Code Division Multiple Access based protocol.

10. The method of Claim 8 further comprising selecting the mobility state from at least three mobility states.

15 11. The method of Claim 10 wherein the mobility states include a stationary state, a pedestrian state, and a mobile state.

12. The method of Claim 8 further comprising associating the detected mobility state with at least one pricing plan from a plurality of available pricing plans.

13. The method of Claim 12 further comprising defining, for each pricing plan, a respective set of deliverable content types based on the mobility state.

20 14. The method of Claim 8 further comprising displaying, on the portable wireless transceiver, a representation of the deliverable content types to a user.

15. An article of manufacture, comprising:
a computer-usable medium;
a set of computer operating instructions embodied on the medium,
including instructions for a method of delivering content to a portable wireless
transceiver, comprising instructions for:
establishing a wireless communication link between a first
wireless transceiver and a second wireless transceiver, at least one of the
wireless transceivers being a portable wireless transceiver;
detecting a mobility state of the portable wireless transceiver; and
based on the detected mobility state, limiting the transmission of
content over the communication link.

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16. The article of Claim 15 wherein the instructions include establishing a Code
Division Multiple Access based communication link.

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17. The article of Claim 15 further comprising instructions for selecting the mobility
state from at least three mobility states.

18. The article of Claim 17 wherein the instructions define the mobility states to
include a stationary state, a pedestrian state, and a mobile state.

19. The article of Claim 15 further comprising instructions for associating the
detected mobility state with at least one pricing plan from a plurality of available
pricing plans.

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20. The article of Claim 19 further comprising instructions for defining, for each
pricing plan, a respective set of deliverable content types based on the mobility
state.

21. The article of Claim 15 further comprising instructions for displaying, on the portable wireless transceiver, a representation of the deliverable content types to a user.
22. A computing system for affecting the transmission of content over a wireless communication link, comprising:
 - 5 a portable wireless transceiver in communication with a wireless communication link, wherein the portable wireless transceiver has an associated level of service and a mobility state; and
 - 10 a computer program routine operating on the level of service and the mobility state to affect the rate of data transmitted over the wireless communication link.
23. The computing system of Claim 22 wherein the level of service is based on a pricing plan associated with the portable wireless transceiver.
24. The computing system of Claim 22 wherein the level of service identifies a plurality of allowed content types transmittable over the wireless communication link.
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25. The computing system of Claim 24 wherein each allowed content type is identified by a respective service port number.
26. The computing system of Claim 24 wherein each allowed content type is identified by a respective protocol identifier.
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27. The computing system of Claim 24 wherein each allowed content type is identified by a respective file type.

28. The computing system of Claim 22 wherein the mobility state is selected from at least three mobility states.

29. The computing system of Claim 22 wherein the mobility state is computed from a metric associated with the wireless communication link.

5 30. The computing system of Claim 22 wherein the mobility state is computed from mobility data in the portable wireless transceiver.

31. The computing system of Claim 22 wherein the computer program routine determines a disallowed transmission.

10 32. The computing system of Claim 31 wherein the computer program routine blocks transmission of the disallowed transmission over the wireless communication link.

15 33. A communication system comprising:
a base station having a wireless transceiver;
a computer coupled to a portable wireless transceiver, the portable wireless transceiver having an associated pricing plan;
a wireless communication link for transmitting data between the base station transceiver and the portable transceiver;
a mobility processing routine in the base station for storing a mobility state for the portable wireless transceiver; and
20 a content filter for blocking data from transmission over the wireless communication link based on the pricing plan and the mobility state.

34. The communication system of Claim 33 wherein the mobility state is computed by a processor in the base station.

35. The communication system of Claim 34 wherein the mobility state is computed from data derived from the performance of the wireless communication link.
36. The communication system of Claim 34 wherein the mobility state is computed from data provided by the portable wireless transceiver.
- 5 37. The communication system of Claim 33 wherein the content filter further blocks data based on a content type associated with the data.
38. The communication system of Claim 37 wherein the content type is represented by a service port number.
- 10 39. The communication system of Claim 37 wherein the content type is represented by a message protocol.
40. The communication system of Claim 37 wherein the content type is represented by a file type.
- 15 41. The communication system of Claim 33 further comprising a gateway disposed between the base station and a wide area network, the gateway including the content filter.
42. A method for affecting the transmission of content over a wireless communication link, comprising:
20 placing a portable wireless transceiver in communication with a wireless communication link, wherein the portable wireless transceiver has an associated level of service and a mobility state; and

in a computer program routine, operating on the level of service and the mobility state to affect the rate of data transmitted over the wireless communication link.

43. The method of Claim 42 wherein the level of service is based on a pricing plan
5 associated with the portable wireless transceiver.
44. The method of Claim 42 wherein the level of service identifies a plurality of allowed content types transmittable over the wireless communication link.
45. The method of Claim 44 wherein each allowed content type is identified by a respective service port number.
- 10 46. The method of Claim 44 wherein each allowed content type is identified by a respective protocol identifier.
47. The method of Claim 44 wherein each allowed content type is identified by a respective file type.
- 15 48. The method of Claim 42 wherein the mobility state is selected from at least three mobility states.
49. The method of Claim 42 wherein the mobility state is computed from a metric associated with the wireless communication link.
50. The method of Claim 42 wherein the mobility state is computed from mobility data in the portable wireless transceiver.

51. The method of Claim 42 wherein the computer program routine determines a disallowed transmission.

52. The method of Claim 51 wherein the computer program routine blocks transmission of the disallowed transmission over the wireless communication link.

53. A communication method comprising:
providing a base station having a wireless transceiver;
coupling a computer to a portable wireless transceiver, the portable wireless transceiver having an associated pricing plan;
10 establishing a wireless communication link for transmitting data between the base station transceiver and the portable transceiver;
from a mobility processing routine in the base station, storing a mobility state for the portable wireless transceiver; and
from a content filter, blocking data from transmission over the wireless communication link based on the pricing plan and the mobility state.

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54. The communication method of Claim 53 wherein the mobility state is computed by a processor in the base station.

55. The communication method of Claim 54 wherein the mobility state is computed from data derived from the performance of the wireless communication link.

20 56. The communication method of Claim 54 wherein the mobility state is computed from data provided by the portable wireless transceiver.

57. The communication method of Claim 53 wherein the content filter further blocks data based on a content type associated with the data.

58. The communication method of Claim 57 wherein the content type is represented by a service port number.
59. The communication method of Claim 57 wherein the content type is represented by a message protocol.
- 5 60. The communication method of Claim 57 wherein the content type is represented by a file type.
61. The communication method of Claim 53 further comprising a gateway disposed between the base station and a wide area network, the gateway including the content filter.

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